8 Channel 4k Network Video Recorder Dahua Technology

Television has become a ubiquitous part of our lives, and yet its impact continues to evolve at an extraordinary pace. The evolution of television from analog to digital technology has been underway for more than half a century. Today's digital technology is enabling a myriad of new entertainment possibilities. From jumbotrons in cyberspace to multi-dimensional viewing experiences, digital technology is changing television. Consequently, new advertising metrics that reflect the new viewer habits are emerging. The ability to capture a viewer's interactions changes the advertising proposition. Telephone and wireless companies are challenging the traditional mass media providers - broadcasters, cable and satellite companies - and they’re all finding ways to deliver TV programming, video content and Internet offerings to large and small screens in the home and on the go. This volume showcases insights from industry insiders and researchers from a variety of disciplines. It explores the economic, cultural, technical, and policy implications of digital television, addressing such questions as: How will content be monetized in the future? What programming opportunities become possible with the advent of going digital? Will content still be king or will the conduits gain the upper hand? This book analyzes the digital television evolution: its impacts on the economics of the TV industry, its significance for content creation from Hollywood blockbusters to You Tube, the changing role of the consumer, and what's coming next to a theatre near you.

Covering everything from signal processing algorithms to integrated circuit design, this complete guide to digital front-end is invaluable for professional engineers and researchers in the fields of signal processing, wireless communication and circuit design. Showing how theory is translated into practical technology, it covers all the relevant standards and gives readers the ideal design methodology to manage a rapidly increasing range of applications. Step-by-step information for designing practical systems is provided, with a systematic presentation of theory, principles, algorithms, standards and implementation. Design trade-offs are also included, as are practical implementation examples from real-world systems. A broad range of topics is covered, including digital pre-distortion (DPD), digital up-conversion (DUC), digital down-conversion (DDC) and DC-offset calibration. Other important areas discussed are peak-to-average power ratio (PAPR) reduction, crest factor reduction (CFR), pulse-shaping, image rejection, digital mixing, delay/gain/imbalance compensation, error correction, noise-shaping, numerical controlled oscillator (NCO) and various diversity methods.

Along with its interrelated companion volume, The Content, Impact, and Regulation of Streaming Video, this book covers the next generation of TV—streaming online video, with details about its present and a broad perspective on the future. It reviews the new technical elements that are emerging, both in hardware and software, their long-term trend, and the implications. It discusses the emerging ‘media cloud’ of video and infrastructure platforms, and the organizational form of such TV.

This book provides a comprehensive understanding of the technology architecture, physical facility changes and – most importantly – the new media management workflows and business processes to support the entire lifecycle of the IP broadcast

facility from an engineering and workflow perspective. Fully updated, this second edition covers the technological evolutions and changes in the media broadcast industry, including the new standards and specifications for live IP production, the SMPTE ST2110 suite of standards, the necessity of protecting against cyber threats and the expansion of cloud services in opening new possibilities. It provides users with the necessary information for planning, organizing, producing and distributing media for the modern broadcast facility. Key features of this text include: Strategies to implement a cost-effective live and file-based production and distribution system. A cohesive, big-picture viewpoint that helps you identify how to overcome the challenges of upgrading your plant. The impact live production is having on the evolution to IP. Case studies serve as recommendations and examples of use. New considerations in engineering and maintenance of IP and file-based systems. Those in the fields of TV, cable, IT engineering and broadcast engineering will find this book an invaluable resource, as will students learning how to set up modern broadcast facilities and the workflows of contemporary broadcasting.

Get a clear picture of IP Multicast applications for delivering commercial high-quality video services This book provides a concise guide to current IP Multicast technology and its applications, with a focus on IP-based Television (IPTV) and Digital Video Broadcast-Handheld (DVB-H) applications—areas of tremendous commercial interest. Traditional phone companies can use IP Multicast technology to deliver video services over their networks; cell phone companies can use it to stream video to handheld phones and PDAs; and many cable TV companies are considering upgrading to IP technology. In addition to applications in industries seeking to provide high-quality digital video and audio, there are numerous other practical uses: multi-site corporate videoconferencing; broad distribution of financial data, stock quotes, and news bulletins; database replication; software distribution; and content caching (for example, Web site caching). After an introduction that gets readers up to speed on the basics, IP Multicast with Applications to IPTV and Mobile DVB-H: Discusses multicast addressing for payload and payload forwarding Covers routing in a variety of protocols, including PIM-SM, CBT, PIM-DM, DVMRP, and MOSPF Discusses multicasting in IPv6 environments and Multicast Listener Discovery (MLD) Features examples of IP Multicast applications in the IPTV and mobile DVB-H environments Includes reference RFCs and protocols placed in the proper context of a commercial-grade infrastructure for the delivery of robust, entertainment-quality linear and nonlinear video programming This is a concise, compact reference for practitioners who seek a quick, practical review of the topic with an emphasis on the major and most often used aspects of the technology. It serves as a hands-on resource for engineers in the communications industry or Internet design, content providers, and researchers. It's also an excellent text for college courses on IP Multicast and/or IPTV.

This book constitutes the refereed proceedings of the 12th International Conference on Cooperative Design, Visualization, and Engineering, CDVE 2015, held in Mallorca, Spain, in September 2015. The 30 full papers presented together with 4 short papers were carefully reviewed and selected from numerous submissions. There is a group of papers dressing the big data related to the cooperative work. It includes the information modeling, intensive task management, how to use the cloud technology to foster the cooperation etc. To deal with the social network issues is the topic of another group of

papers in this volume. They range from creating programming languages to automate cooperative processes, social network information visualization, and the ranking cooperative research teams by analyzing the social network data.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

In the field-defining text TELEVISION PRODUCTION HANDBOOK, author Herbert Zettl emphasizes how production proceeds in the digital age-from idea to image-and how it moves through the three major phases, from preproduction to production to postproduction. In this context, Zettl describes the necessary tools, considers what they can and cannot do, and explains how they are used to ensure maximum efficiency and effectiveness. This edition features the latest digital equipment and production techniques, including including stereo 3D, 3D camcorders, 4K and 8K digital cinema cameras, portable switchers, LED lighting instruments, and digital lighting control systems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This comprehensive and state-of-the art approach to video processing gives engineers and students a comprehensive introduction and includes full coverage of key applications: wireless video, video networks, video indexing and retrieval and use of video in speech processing. Containing all the essential methods in video processing alongside the latest standards, it is a complete resource for the professional engineer, researcher and graduate student. Numerous conceptual and numerical examples All the latest standards are thoroughly covered: MPEG-1, MPEG-2, MPEG-4, H.264 and AVC Coverage of the latest techniques in video security "Like its sister volume "The Essential Guide to Image Processing," Professor Bovik’s Essential Guide to Video Processing provides a timely and comprehensive survey, with contributions from leading researchers in the area. Highly recommended for everyone with an interest in this fascinating and fast-moving field." —Prof. Bernd Girod, Stanford University, USA * Edited by a leading person in the field who created the IEEE International Conference on Image Processing, with contributions from experts in their fields. * Numerous conceptual and numerical examples *All the latest standards are thoroughly covered: MPEG-1, MPEG-2, MPEG-4, H.264 and AVC. * Coverage of the latest techniques in video security

In emergency and disaster scenarios, it is vital to have a stable and effective infrastructure for relaying communication to the public. With the advent of new technologies, more options are available for enhancing communication systems. Multimedia Services and Applications in Mission Critical Communication Systems is a comprehensive source of academic research on the challenges and solutions in creating stable mission critical systems and examines methods to improve system architecture and resources. Highlighting innovative perspectives on topics such as quality of service, performance metrics, and intrusion detection, this book is ideally designed for practitioners, professionals, researchers, graduate students, and academics interested in public safety communication systems.

A Practical Introduction to Enterprise Network and Security Management, Second Edition, provides a balanced understanding of introductory and advanced subjects in both computer networking and cybersecurity. Although much of the focus is on technical concepts, managerial issues related to enterprise network and security planning and design are explained from a practitioner’s perspective. Because of the critical importance of cybersecurity in today’s enterprise networks, security-related issues are explained throughout the book, and four chapters are dedicated to fundamental knowledge. Challenging concepts are explained so readers can follow through with careful reading. This book is written for those who are self-studying or studying information systems or computer science in a classroom setting. If used

for a course, it has enough material for a semester or a quarter. FEATURES Provides both theoretical and practical hands-on knowledge and learning experiences for computer networking and cybersecurity Offers a solid knowledge base for those preparing for certificate tests, such as CompTIA and CISSP Takes advantage of actual cases, examples, industry products, and services so students can relate concepts and theories to practice Explains subjects in a systematic and practical manner to facilitate understanding Includes practical exercise questions that can be individual or group assignments within or without a classroom Contains several information-rich screenshots, figures, and tables carefully constructed to solidify concepts and enhance visual learning The text is designed for students studying information systems or computer science for the first time. As a textbook, this book includes hands-on assignments based on the Packet Tracer program, an excellent network design and simulation tool from Cisco. Instructor materials also are provided, including PowerPoint slides, solutions for exercise questions, and additional chapter questions from which to build tests.
This book takes China Mobile's "5G +" plan as the mainline, introduces three major scenarios, nine indicators, system architecture and basic principles of 5G, and systematically explains the essence of China Mobile's "5G +" for the first time. A lot of industry use cases and solutions are introduced for 5G to bring new changes to life, industries, and social governance. This book can benefit all readers who are interested in 5G. It also can be a reference for vertical industry partners to fully understand the possible applications of 5G. Most of all, it will help to promote all industries with new developments based on 5G's new kinetic energy.
Communication Technology Update and Fundamentals, now in its 17th edition, has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed, grown, and converged, as well as what’s in store for the future. The book covers the fundamentals of communication technology in five chapters that explain the communication technology ecosystem, its history, theories, structure, and regulations. Each chapter is written by experts who each provide a snapshot of an individual field. The book also dives into the latest developments in electronic mass media, computers, consumer electronics, networking, and telephony. Together, these updates provide a broad overview of these industries and examine the role communication technologies play in our everyday lives. In addition to substantial updates to each chapter, the 17th edition includes the first-ever chapter on Artificial Intelligence; updated user data in every chapter; an overview of industry structure, including recent and proposed mergers and acquisitions; and sidebars exploring sustainability and relevance of each technology to Gen Z. Communication Technology Update and Fundamentals continues to be the industry-leading resource for both students and professionals seeking to understand how communication technologies have developed and where they are headed.
Take Control of Home Security Camerasalt concepts
In the history of mankind, three revolutions which impact the human life are tool-making revolution, agricultural revolution and industrial revolution. They have transformed not only the economy and civilization but the overall development of the human society. Probably, intelligence revolution is the next revolution, which the society will perceive in the next 10 years. ICCD-2014 covers all dimensions of intelligent sciences, i.e. Intelligent Computing, Intelligent Communication and

Intelligent Devices. This volume covers contributions from Intelligent Computing, areas such as Intelligent and Distributed Computing, Intelligent Grid & Cloud Computing, Internet of Things, Soft Computing and Engineering Applications, Data Mining and Knowledge discovery, Semantic and Web Technology, and Bio-Informatics. This volume also covers paper from Intelligent Device areas such as Embedded Systems, RFID, VLSI Design & Electronic Devices, Analog and Mixed-Signal IC Design and Testing, Solar Cells and Photonics, Nano Devices and Intelligent Robotics.

A guide to the current technologies related to the delivery process for both live and on-demand services within IPTV delivery networks IPTV Delivery Networks is an important resource thatoffers an in-depth discussion to the IPTV (Internet Protocol Television) delivery networks for both live and on demand IPTV services.This important book also includes a review of the issues and challenges surrounding the delivery of IPTV over various emerging networking and communications technologies. The authors — an international team of experts — introduce a framework for delivery network applicable for live and video-on-demand services. They review the fundamental issues of IPTV delivery networks and explore the QoS (Quality of Service) issue for IPTV delivery networks that highlights the questions of security and anomaly detection as related to quality. IPTV Delivery Networks also contains a discussion of the mobility issues and next-generation delivery networks. This guide captures the latest available and usable technologies in the field and: Explores the technologies related to delivery process for both live (real time) and on demand services in highly accessible terms Includes information on the history, current state and future of IPTV delivery Reviews all the aspects of delivery networks including storage management, resource allocation, broadcasting, video compression, QoS and QoE Contains information on current applications including Netflix (video on demand), BBC iPlayer (time-shifted IPTV) and live (real time) streaming Written for both researchers and industrial experts in the field of IPTV delivery networks. IPTV Delivery Networks is a groundbreaking book that includes the most current information available on live and on demand IPTV services.

This practical handbook and reference provides a complete understanding of the telecommunications field supported by descriptions and case examples throughout Taking a practical approach, The Telecommunications Handbook examines the principles and details of all of the major and modern telecommunications systems currently available to industry and to end-users. It gives essential information about usage, architectures, functioning, planning, construction, measurements and optimisation. The structure of the book is modular, giving both overall descriptions of the architectures and functionality of typical use cases, as well as deeper and practical guidelines for telecom professionals. The focus of the book is on current and future networks, and the most up-to-date functionalities of each network are described in sufficient detail for deployment purposes. The contents include an introduction to each

technology, its evolution path, feasibility and utilization, solution and network architecture, and technical functioning of the systems (signalling, coding, different modes for channel delivery and security of core and radio system). The planning of the core and radio networks (system-specific field test measurement guidelines, hands-on network planning advices and suggestions for the parameter adjustments) and future systems are also described. Each chapter covers aspects individually for easy reference, including approaches such as: functional blocks, protocol layers, hardware and software, planning, optimization, use cases, challenges, solutions to potential problems Provides very practical detail on the planning and operation of networks to enable readers to apply the content in real-world deployments Bridges the gap between the communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry Section divisions include: General theory; Fixed telecommunications; Mobile communications; Space communications; Other and special communications; and Planning and management of telecommunication networks Covers new commercial and enhanced systems deployed, such as IPv6 based networks, LTE-Advanced and GALILEO An essential reference for Technical personnel at telecom operators; equipment and terminal manufacturers; Engineers working for network operators.

Optimal Audio and Video Reproduction at Home is a comprehensive guide that will help every reader set up a modern audio-video system in a small room such as a home theater or studio control room. Verdult covers everything the reader needs to know to optimize the reproduction of multichannel audio and high-resolution video. The book provides concrete advice on equipment setup, display calibration, loudspeaker positioning, room acoustics, and much more. Detailed, easy-to-grasp explanations of the underlying principles ensure the reader will make the right choices, find alternatives, and separate the rigid from the more flexible requirements to achieve the best possible results.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

This book gathers high-quality, peer-reviewed research papers presented at the Second International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2019), held in Kiev, Ukraine on 26–27 January 2019, and jointly organized by the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” and the International Research Association of Modern Education and Computer Science. The papers discuss state-of-the-art topics and advances in computer science; neural networks; pattern recognition; engineering techniques; genetic coding systems; deep learning and its medical applications; and knowledge representation and its applications in education. Given its scope, the book offers an excellent resource for researchers, engineers, management practitioners, and graduate and undergraduate students interested in computer science and its applications in engineering and education.

FIFTH EDITION, UPDATED FOR 2020. The authoritative guide to producing, directing, shooting, editing, and distributing your video or film. Whether you aspire to be a great filmmaker yourself or are looking for movie gifts, this comprehensive guide to filmmaking is the first step in turning a hobby into a career. Widely acknowledged as the “bible” of video and film production, and used in courses around the world, The Filmmaker’s Handbook is now updated with the latest advances in HD and digital formats. For students and teachers, professionals and novices, this indispensable handbook covers all aspects of movie making. • Techniques for making dramatic features, documentaries, corporate, broadcast, and experimental videos and films • Shooting with DSLRs, video, film, and digital cinema cameras • In-depth coverage of lenses, lighting, sound recording, editing, and mixing • Understanding HDR, RAW, Log, 4K, UHD, and other formats • The business aspects of funding and producing your project • Getting your movie shown in theaters, on television, streaming services, and online

Operators are introducing mobile television and digital video content services globally. The Handbook of Mobile Broadcasting addresses all aspects of these services, providing a comprehensive reference on DVB-H, DMB, ISDB-T, and MediaFLO. Featuring contributions from experts in the field, the text presents technical standards and distribution proto

Make your home safer! Version 1.2, updated February 23, 2021 Are you thinking about installing a home security camera (or several!) or a smart-home security and sensor system that includes cameras? This book guides you through the many decisions about quality, features, privacy, and security that will help you find just what you want. If you own one or more home security cameras already, you'll learn much more about options, configuration, and changes you can make—and how you might expand your system or replace parts of it. (This book could even convince you that the time isn’t right to purchase a home security camera given tradeoffs you don’t want to make, especially on privacy and security!) In Take Control of Home Security Cameras, networking and security expert Glenn Fleishman shows you how to make smart choices about buying and configuring cameras that take into account technical details, video quality, system integration, your own privacy and that of others, and internet security. As you read this book, you'll: • Figure out which features are right for you • Configure your system securely to ensure that you and people you authorize are the only ones with access to live and stored video • Find out how to build a system entirely offline, in which no video or live streams make their way to the internet at all • Understand the different kinds of cloud-based storage of video, and which you might be comfortable with • Learn about Apple HomeKit Secure Video, a new option available for iPhone and iPad users and certain camera systems (including Logitech Circle 2 and Eufy cameras) that provides the highest level of privacy currently available in cloud storage • Get to know features found in home security cameras, and how they affect the quality and nature of video you capture • Set your system so that alerts only appear for the kinds of motion, sound, or other triggers that meet your threshold • Avoid becoming part of the surveillance state—or opt into a limited and controlled part of it with a fuller understanding of what that means • Learn about the legal aspects and limits of recording audio and video, and how they might (or might not) help catch criminals • Get in-depth insight into over 10 of the most popular home security video cameras and

systems, including Amazon Blink and Ring, Eufy, Google Nest, NETGEAR Arlo, Logitech Circle, Wyze, and several others • Figure out whether you want a multi-camera system that records video on your network or smart cameras that stream events or continuous video to the internet

This book provides a full and comprehensive coverage of video and television technology including the latest developments in display equipment, HDTV and DVD. Starting with TV fundamentals, the bulk of the book covers the many new technologies that are bringing growth to the TV and video market, such as plasma and LCD, DLP (digital light processing), DVD, Blu ray technology, Digital television, High Definition television (HDTV) and video projection systems. For each technology, a full explanation is provided of its operation and practical application, supported by over 300 diagrams including schematic diagrams of commercially available consumer equipment. Where relevant, testing and fault finding procedures are outlined together with typical fault symptoms supported by photographs. The new edition has a number of useful appendices on microcomputer/microcontroller systems, test instruments, serial buses (I2C and RS 232), teletext and error correction techniques. The book is intended for students of electronics and practicing engineers. In particular, it will useful for students on vocational courses and service engineers as well as enthusiasts. * The definitive guide to the new technologies transforming the world of television: HDTV, Digital TV, DVD recorders, hard disk recorders, wide-screen CRT, flat screen technologies and others * A practical approach, including troubleshooting and servicing information * Covers UK, European and North American systems

Your comprehensive guide to Fiber Optics Fundamentals and advancements taking place in this field… Synopsis This book provides solid base in fiber optics communications for B Tech and M Tech students and also for practicing engineers and research scholars in this field. The book contains more than 650 illustrations which give a comprehensive coverage of the technology involved in the fiber optics communications. This book gives an in-depth coverage of: ? Telecommunications fundamentals ? optical fiber transmission characteristics ? optical fiber manufacturing and cables ? Signal degradation (distortion) in optical fibers ? optical fiber nonlinearities and their management ? optical sources and receivers ? optical amplifiers ? SONET/SDH, OTN, DWDM, OFDM and Super Channels ? connectors and couplers ? fiber optic link design ? optical networks and cloud computing ? review of fiber optic sensors and their applications (Fiber optics sensors are altogether a different field in latest sensor technology) ? Advance technologies in fiber optics communications covering FTTH technologies, OTDR, Nanophotonics, Low signal latency in optical fibers and fabrication and simulation of optical fibers and their optical parameters by Opti-Wave software.

Enjoy more entertainment with this friendly user guide to making the most of Amazon Fire TV! Find and watch more of the shows you enjoy with Amazon Fire TV For Dummies. This book guides you through Fire TV connections and setup and then shows you how to get the most out of your device. This guide is the convenient way to access quick viewing tips, so there’s no need to search online

for information or feel frustrated. With this book by your side, you'll quickly feel right at home with your streaming device. Content today can be complicated. You want to watch shows on a variety of sources, such as Hulu, Amazon Prime, Netflix, and the top premium channels. Amazon's media device organizes the streaming of today's popular content services. It lets you use a single interface to connect to the entertainment you can't wait to watch. This book helps you navigate your Fire TV to find the content you really want. It will show you how to see your favorite movies, watch binge-worthy TV shows, and even play games on Fire TV. Get the information you need to set up and start using Fire TV. Understand the basics of how to use the device Explore an array of useful features and streaming opportunities Learn techniques to become a streaming pro Conquer the world of Fire TV with one easy-to-understand book. Soon you'll be discovering the latest popcorn-worthy shows.

The "digital revolution" of the last two decades has pervaded innumerable aspects of our daily lives and changed our planet irreversibly. The shift from analog to digital broadcasting has facilitated a seemingly infinite variety of new applications—audience interactivity being but one example. The greater efficiency and compression of digital media have endowed broadcasters with a "digital dividend" of spare transmission capacity over and above the requirements of terrestrial broadcasting. The question is, who will use it, and how? Comparing the European experience with that of broadcasters elsewhere in the world, the author sketches the current status of international frequency management, quantifies the value of the "dividend" itself, analyzes the details of the analog-to-digital switchovers already completed, and posits what the future holds for the sector. As we grapple with new devices, inconceivable a mere generation ago, that allow us to access digital media instantly, anywhere and at any time of day, this book is a potent reminder that what we have witnessed so far may be just the first wavering steps along a road whose destination we can only guess at.

This practical guide offers all important digital television, sound radio, and multimedia standards such as MPEG, DVB, DVD, DAB, ATSC, T-DMB, DMB-T, DRM and ISDB-T. It provides an in-depth look at these subjects in terms of practical experience. In addition explains the basics of essential topics like analog television, digital modulation, COFDM or mathematical transformations between time and frequency domains. The fourth edition addresses many new developments and features of digital broadcasting. Especially it includes Ultra High Definition Television (UHDTV), 4K, HEVC / H.265 (High Efficiency Video Coding), DVB-T2 measurement techniques and practice, DOCSIS 3.1, DVB - S2X, and 3DTV, as well as VHF-FM radio, HDMI, terrestrial transmitters, and stations. In the center of the treatments are always measuring techniques and of measuring practice for each case consolidating the knowledge imparted with numerous practical examples. The book is directed primarily at the specialist working in the field, on transmitters and transmission equipment, network planning, studio technology, playout centers and multiplex center technology and

in the development departments for entertainment electronics or TV test engineering. Since the entire field of electrical communications technology is traversed in a wide arc, those who are students in this field are not excluded either.

In this book, the author addresses technologies that are being used in emerging cellular markets. These include GSM/EGPRS and CDMA which are being deployed at a rapid pace, while technologies such as UMTS (3G)/ HSPA (3.5G) which have started to find a place in these high growth markets, are also considered. The book examines other technologies including LTE (3.9G) which have already moved out of research labs into the commercial world. 2G-CDMA is widely used, while further developments, e.g. CDMA2000 are also finding acceptance in the commercial arena. IMS/Convergence is increasingly popular all over the world; UMA, which is deployed mostly in North America; and DVB which is gaining worldwide popularity, especially in South Asia, are all reviewed. Each chapter discusses a different technology and is structured into three parts. The technology is examined at an overview level, first explaining what the technology is and then considering the technical features of the technology. The chapter concludes by looking at the planning/implementation aspects of the technology. Key Features: Useful for all cellular industry professionals as provides an overview of the currently deployed technologies in mass scale, and the forthcoming technologies that are expected to make an impact in the future, such as 4th Generation Cellular Networks. One of the first books on the market to encompass all the major cellular technologies, as well as considering the design and implementation perspective. Wireless Technology will play a key role in uplifting the economies of the Emerging countries globally. Ashok Chandra, Wireless Advisor to Govt. of India

This book presents revised selected papers from the 14th International Forum on Digital TV and Wireless Multimedia Communication, IFTC 2017, held in Shanghai, China, in November 2017. The 46 papers presented in this volume were carefully reviewed and selected from 122 submissions. They were organized in topical sections named: image processing; machine learning; quality assessment; social media; telecommunications; video surveillance; virtual reality; computer vision; and image compression.